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NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
 saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
 now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 28 Oct 21 EVENTLINE has been reloaded
NEWS 29 Oct 24 BEILSTEIN adds new search fields
NEWS 30 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 31 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 32 Nov 18 DKILIT has been renamed APOLLIT
NEWS 33 Nov 25 More calculated properties added to REGISTRY

NEWS EXPRESS October 14 CURRENT WINDOWS VERSION IS V6.01,
 CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
 AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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=> s duckweed and transgenic

=> d 1-13 t i

1.2 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2002 ACS

EE ANSWER 1 OF 15 CAMEO - COPYRIGHT 2002 KES
TI Regulation of glutamic acid decarboxylase activity in **transgenic**
plants for improved γ -aminobutyric acid production and tolerance of
plant stress

L2 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2002 ACS

EZ ANSWER 2 OF 15 CALCS COPYRIGHT 2002 ACS
TI Sequence of Douglas fir luminal binding protein gene promoter PmBiPProl
and uses in transgene expression in plants

L2 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1
TI Transient transformation of *Wolffia columbiana* by particle beam

L2 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2002 ACS
TI **Transgenic** plants having increased methionine content due to reduction of threonine synthase activity

L2 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2002 ACS

TI Expression of multiple genes in a single operon in plants and uses as insecticides and in degrading inorganic or organic metal compounds in soil and water

L2 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2002 ACS

TI Adenosine phosphosulfate reductase cDNA-expressing transgenic plants enriched in cysteine and glutathione content

L2 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 2
TI Genetic transformation of **duckweed** *Lemna gibba* and *Lemna minor*

L2 ANSWER 8 OF 13 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 TI A transient transformation system for **duckweed** (*Wolffia columbiana*) using Agrobacterium-mediated gene transfer.

L2 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2002 ACS
 TI Ligand-gated ion channel GLR4 from *Arabidopsis thaliana* and methods of regulating plant metabolism

L2 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2002 ACS
 TI Methods and compositions for production of multimeric proteins in **transgenic** plants

L2 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2002 ACS
 TI Methods for producing and recovering heterologous polypeptides from **transgenic** plants

L2 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2002 ACS
 TI Light-inducible plant nucleoside diphosphate kinase (NDK) and cloning of cDNA encoding NDK from *Pisum sativum*

L2 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2002 ACS
 TI Phytochrome regulation of transcription: biochemical and genetic approaches

=> d so

L2 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2002 ACS
 SO PCT Int. Appl., 63 pp.
 CODEN: PIXXD2

=> d pi

	L2	ANSWER 1 OF 13 CAPLUS COPYRIGHT 2002 ACS	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002038736	A2	20020516	WO 2001-US47447	20011107		
				W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
				RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		

=> d 2 pi

	L2	ANSWER 2 OF 13 CAPLUS COPYRIGHT 2002 ACS	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002012517	A1	20020214	WO 2000-CA941	20000817		
				W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
				RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		

US 6440674	B1	20020827	US 2000-632538	20000804
AU 2000066752	A5	20020218	AU 2000-66752	20000817

=> d 3 so

L2 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1
SO Aquatic Botany (2002), 72(2), 175-181
CODEN: AQBODS; ISSN: 0304-3770

=> d 4 so

L2 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2002 ACS
SO PCT Int. Appl., 43 pp.
CODEN: PIXXD2

=> d 4 pi

L2 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2002 ACS
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2001075130 A1 20011011 WO 2001-EP3842 20010404
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

=> d 5 pi

L2 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2002 ACS
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2001064024 A1 20010907 WO 2001-US6276 20010228
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
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DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

=> d 6 pi

L2 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2002 ACS
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2001049855 A1 20010712 WO 2001-FR36 20010105
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 FR 2803484 A1 20010713 FR 2000-139 20000106
 EP 1244792 A1 20021002 EP 2001-903880 20010105
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

=> d pi

L2	ANSWER 1 OF 13	CAPLUS	COPYRIGHT 2002 ACS	
	PATENT NO.	KIND	DATE	APPLICATION NO. DATE
PI	WO 2002038736	A2	20020516	WO 2001-US47447 20011107
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

=> d 8 pi

L2 ANSWER 8 OF 13 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

=> d 8 so

L2 ANSWER 8 OF 13 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 SO Journal of Applied Botany, (August, 2001) Vol. 75, No. 3-4, pp. 107-111.
 print.
 ISSN: 0949-5460.

=> d 9 so

L2 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2002 ACS
 SO PCT Int. Appl., 54 pp.
 CODEN: PIXXD2

=> d 9 pi

L2	ANSWER 9 OF 13	CAPLUS	COPYRIGHT 2002 ACS	
	PATENT NO.	KIND	DATE	APPLICATION NO. DATE
PI	WO 2000052137	A2	20000908	WO 2000-US5407 20000302
	WO 2000052137	A3	20010215	
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 2000038630	A5	20000921	AU 2000-38630 20000302
	EP 1158849	A2	20011205	EP 2000-917697 20000302

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO

=> d 10 pi

L2	ANSWER 10 OF 13	CAPLUS COPYRIGHT 2002 ACS		
	PATENT NO.	KIND	DATE	APPLICATION NO.
PI	WO 9949024	A2	19990930	WO 1999-US6506
	WO 9949024	A3	19991125	19990324
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
	AU 9931152	A1	19991018	AU 1999-31152
				19990324

=> d 11 pi

L2	ANSWER 11 OF 13	CAPLUS COPYRIGHT 2002 ACS		
	PATENT NO.	KIND	DATE	APPLICATION NO.
PI	WO 9938990	A1	19990805	WO 1999-US2071
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		19990129
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
	US 6096546	A	20000801	US 1998-15605
	CA 2319732	AA	19990805	CA 1999-2319732
	AU 9925701	A1	19990816	AU 1999-25701
	EP 1049792	A1	20001108	EP 1999-905568
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE, PT, FI			19990129
	JP 2002501755	T2	20020122	JP 2000-529448
				19990129

=> d 12 pi

L2	ANSWER 12 OF 13	CAPLUS COPYRIGHT 2002 ACS		
	PATENT NO.	KIND	DATE	APPLICATION NO.
PI	JP 09252781	A2	19970930	JP 1996-90623
				19960319

=> d 13 pi

L2 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2002 ACS

=> d 13 so

L2 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2002 ACS
SO NATO ASI Series, Series H: Cell Biology (1991), 50(Phytochrome Prop.
Biol. Action), 167-79

CODEN: NASBE4; ISSN: 1010-8793

=> d 12 ab

L2 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2002 ACS
AB Red light-inducible plant nucleoside diphosphate kinase (NDK) is purified from rice (*Oryza sativa*) and other plants. Light-induced phosphorylation of the 15-kDa NDK is obsd. in *Oryza sativa*, *Pisum sativum* strain Alaska, *Arabidopsis thaliana*, *Triticum aestivum*, and *Hordeum vulgare*. The cDNA encoding NDK is also isolated from *P. sativum* and its amino acid sequence deduced. Existence of the NDK-coding gene is also obsd. in a wide range of monocots and dicots. The gene can be used for breeding **transgenic** plants with improved productivity and quality.

=> d 13 ab

L2 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2002 ACS
AB Phytochrome-regulated expression of reporter genes attached to *Lemna gibba* phytochrome-regulated promoters was obsd. after Agrobacterium-mediated transformation of tobacco and biotic transformation of *Lemna* fronds. The regulation of gene expression by phytochrome in *L. gibba* and *Arabidopsis* is reviewed.

=> s lemnaceae and transform?

L3 26 LEMNACEAE AND TRANSFORM?

=> dup rem 13
PROCESSING COMPLETED FOR L3
L4 26 DUP REM L3 (0 DUPLICATES REMOVED)

=> d 1-10 ti

L4 ANSWER 1 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Transient **transformation** of *Wolffia columbiana* by particle bombardment.

L4 ANSWER 2 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Phytotoxicity and ultrastructural effects of *gymnopusin* from the orchid *Maxillaria densa* on duckweed (*Lemna pausicostata*) frond and root tissues.

L4 ANSWER 3 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Phytoremediation kinetics: Removal of 2,4,5-trichlorophenol with *Lemna minor*.

L4 ANSWER 4 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Genetic **transformation** of duckweed *Lemna gibba* and *Lemna minor*.

L4 ANSWER 5 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI A transient **transformation** system for duckweed (*Wolffia columbiana*) using Agrobacterium-mediated gene transfer.

L4 ANSWER 6 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Genetically engineered duckweed.

L4 ANSWER 7 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Uptake and phytotransformation of o,p'-DDT and p,p'-DDT by axenically cultivated aquatic plants.

L4 ANSWER 8 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Uptake and phytotransformation of organophosphorus pesticides by axenically cultivated aquatic plants.

L4 ANSWER 9 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Phytotransformations of perchlorate contaminated waters.

L4 ANSWER 10 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Comparison between algae-based and duckweed-based wastewater treatment:
Differences in environmental conditions and nitrogen
transformations.

=> d 6 pi

L4 ANSWER 6 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
PI US 6040498 March 21, 2000

=> d 10 so

L4 ANSWER 10 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
SO Water Science and Technology, (2000) Vol. 42, No. 10-11, pp. 215-222.
print.
ISSN: 0273-1223.

=> d 10 ab

L4 ANSWER 10 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AB In laboratory-scale batch experiments, duckweed (*Limna gibba*)-based and
algae-based wastewater containers have been monitored over 15 days in two
experiments with different initial total nitrogen concentrations of 50
(experiment 1) and 100 mg-N/L (experiment 2). Clear differences in
environmental conditions were observed. High dissolved oxygen (DO)
concentrations were observed in the algae-based, compared to
duckweed-based, containers. In the algae-based containers the DO range was
between 2.1 to 6.6 mg/L and 1.2 to 4.3 mg/L in experiment 1 and 2,
respectively, whereas in the duckweed-based containers DO ranged between
1.1 to 3 mg/l and 0.5 to 2.1 mg/L. Higher pH values were measured in
algae-based due to algal photosynthetic activity compared to
duckweed-based containers where the duckweed mat prevented sunlight
penetration and hence algal development. In algae-based containers, the pH
range was 7.9 to 8.6 and 8.1 to 8.4 in experiments 1 and 2, respectively,
and 7.3 to 7.5 and 7 to 7.6 in the duckweed-based containers. Depending on
initial nitrogen concentrations, duckweed-based containers removed between
42%-62% of total nitrogen and between 56%-95% of Kjeldahl nitrogen from
the wastewater, while algae-based containers removed between 45%-48% and
48%-58% of total nitrogen and Kjeldahl nitrogen, respectively. Nitrogen
loss, probably due to denitrification and ammonia volatilisation,
represents 40% of the total nitrogen content of algae-based and
duckweed-based containers. However, in duckweed-based containers only 28%
of N-loss was observed in containers with higher initial N-content. This
study demonstrates that there were differences in environmental conditions
in algae-based and duckweed-based containers, which have caused
differences in nitrogen transformation mechanisms.

=> d 11-20 ti

L4 ANSWER 11 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Uptake kinetics of ⁹⁹Tc in common duckweed.

L4 ANSWER 12 OF 26 CAPLUS COPYRIGHT 2002 ACS
TI Methods for the genetic transformation of *Lemnaceae*
with *Agrobacterium tumefaciens*

L4 ANSWER 13 OF 26 CAPLUS COPYRIGHT 2002 ACS
 TI Use of transgenic vascular aquatic plants as expression hosts in the manufacture of novel metabolites

L4 ANSWER 14 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 TI Elimination of phenol by two aquatic plants: *Juncus fontanesii* (Gay) and *Lemna minor* L.

L4 ANSWER 15 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 TI Trifluoroacetate, an atmospheric breakdown product of hydrofluorocarbon refrigerants: Biomolecular fate in aquatic organisms.

L4 ANSWER 16 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 TI The toxicity of the herbicide metolachlor, some transformation products and a commercial safener to an alga (*Selenastrum capricornutum*), a cyanophyte (*Anabaena cylindrica*) and a macrophyte (*Lemna gibba*).

L4 ANSWER 17 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 TI Present vegetation of the Po plain in Lombardy.

L4 ANSWER 18 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 TI Utilisation of macrophytes in unconventional sewage treatment plants.

L4 ANSWER 19 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 TI Allozymic variation in local apomictic populations of *Lemna minor* (*Lemnaceae*).

L4 ANSWER 20 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 TI UNCOMMON TYPE OF HYDROXYLATION OF 3-ALKENYL-SUBSTITUTED DERIVATIVES OF CITRONELLOL AND CITRONELLIC ACID BY SPIRODELA-PUNCTATA.

=> d 12 so

L4 ANSWER 12 OF 26 CAPLUS COPYRIGHT 2002 ACS
 SO PCT Int. Appl., 58 pp.
 CODEN: PIXXD2

=> d 12 pi

		PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9919497	A1	19990422	WO 1997-IL328	19971010	
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9745703	A1	19990503	AU 1997-45703	19971010	
	CA 2312008	AA	19990422	CA 1998-2312008	19981008	
	WO 9919498	A1	19990422	WO 1998-IL487	19981008	
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

AU 9894572 A1 19990503 AU 1998-94572 19981008
EP 1021552 A1 20000726 EP 1998-947760 19981008
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO

=> d 13 pi

L4	ANSWER 13 OF 26	CAPLUS	COPYRIGHT 2002 ACS		
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19629402	A1	19980205	DE 1996-19629402	19960720
	DE 19629402	C2	19980514		

=> d 13 ab

L4 ANSWER 13 OF 26 CAPLUS COPYRIGHT 2002 ACS
AB The use of transgenic vascular water plants as expression hosts for the manuf. of metabolites or macromols. is described. These plants can be grown in fermentors. The preferred hosts are plants of the genus Wolffia, esp. Wolffia arrhiza.

=> d 21-26 ti

L4 ANSWER 21 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI D1-D2 CYTOCHROME B559 COMPLEX FROM THE AQUATIC PLANT SPIRODELA-OLIGORRHIZA CORRELATION BETWEEN COMPLEX INTEGRITY SPECTROSCOPIC PROPERTIES PHOTOCHEMICAL ACTIVITY AND PIGMENT COMPOSITION.

L4 ANSWER 22 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI TRANSFORMATION OF ANDROSTANE DERIVATIVES BY SPIRODELA-OLIGORRHIZA.

L4 ANSWER 23 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI TRANSCRIPTION OF AN ARTIFICIAL RIBOSOMAL RNA GENE IN YEAST.

L4 ANSWER 24 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI EVIDENCE FOR UPTAKE OF PLASMID DNA INTO INTACT PLANTS LEMNA-PERPUSILLA PROVED BY AN ESCHERICHIA-COLI K-12 TRANSFORMATION ASSAY.

L4 ANSWER 25 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI THE EFFECT OF GALACTOSE ON THE GROWTH OF LEMNA-GIBBA.

L4 ANSWER 26 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI CLASSIFICATION OF LAKES IN SOUTHERN SWEDEN ON THE BASIS OF THEIR MACROPHYTE COMPOSITION BY MEANS OF MULTI VARIATE METHODS.

=> d 22 ab

L4 ANSWER 22 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AB Spirodela oligorrhiza (duckweed) is capable of transforming some steroids of the androstane series. Hydrolysis of the acetates of testosterone and of 3. β -hydroxyandrost-5-en-17-one by this species yielded the corresponding alcohols. Further transformation of testosterone and reduction of androst-4-ene-3,17-dione indicated the interconversion of the hydroxyl-ketone function on C-17 and reduction of the Δ .4-double bond to the trans-A/B system. Only a trace amount of 3. β -hydroxyandrost-5-en-17-one-underwent further transformation.

=> s (duckweed or lemnaceae) and agrobacterium
L5 9 (DUCKWEED OR LEMNACEAE) AND AGROBACTERIUM

=> dup rem 15
PROCESSING COMPLETED FOR L5
L6 8 DUP REM L5 (1 DUPLICATE REMOVED)

=> d 1-8 ti

L6 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI Immunoglobulin binding protein arrays in plant cells

L6 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1
TI Genetic transformation of **duckweed** Lemna gibba and Lemna minor

L6 ANSWER 3 OF 8 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI A transient transformation system for **duckweed** (Wolffia columbiana) using **Agrobacterium**-mediated gene transfer.

L6 ANSWER 4 OF 8 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Genetically engineered **duckweed**.

L6 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI Methods for the genetic transformation of **Lemnaceae** with **Agrobacterium tumefaciens**

L6 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI Transformation of **duckweed** (Lemna) plants with ballistic bombardment, electroporation, or **Agrobacterium** vectors

L6 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI Simple (bench-top) bioassays and the isolation of new chemically diverse antitumor and pesticidal agents from higher plants

L6 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI Phytochrome regulation of transcription: biochemical and genetic approaches

=> d 8 so

L6 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2002 ACS
SO NATO ASI Series, Series H: Cell Biology (1991), 50(Phytochrome Prop. Biol. Action), 167-79
CODEN: NASBE4; ISSN: 1010-8793

=> d 7 so

L6 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2002 ACS
SO Recent Advances in Phytochemistry (1999), 33(Phytochemicals in Human Health Protection, Nutrition and Plant Defense), 89-132
CODEN: RAPHBE; ISSN: 0079-9920

=> d 7 ab

L6 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2002 ACS
AB A review with 132 refs. Four simple (bench-top) bioassays are serving well for the detection and fractionation monitoring of new plant antitumor and pesticidal agents. These are: (1) lethality to the larvae of brine shrimp (*Artemia salina*); (2) the inhibition of crown gall tumors, induced by plasmid transfer and expression from **Agrobacterium tumefaciens**, on disks of potato (*Solanum tuberosum*) tubers; (3) the

inhibition or stimulation of frond proliferation of **duckweed** (*Lemna minor*); and (4) lethality to the larvae of yellow fever mosquitoes (*Aedes aegyptii*). Since 1984, over 320 chem. diverse bioactive plant components have been isolated and characterized in our lab. by using these methods. Recently, bioactive compds. from the Meliaceae, Lauraceae, Euphorbiaceae, Laminaceae, and other plant families have been isolated, but our most exciting leads have been with the potent acetogenins from the Annonaceae; these compds. are powerful inhibitors of mitochondrial electron transport systems and of the NADH oxidase that is prevalent in the plasma membranes of tumorous cells. The consequence is ATP depletion, and this is esp. toxic to multiple drug resistant tumor cells and pesticide resistant insects that possess ATP-dependent xenobiotic efflux systems. Structural activity relationship studies (in mitochondrial preps. and against mosquito larvae) help to define the optimum structural features. This paper has presented the chem. and biol. testing results of 207 plant components recently isolated using the simple bioassays described followed by cytotoxicity testing in a panel of six human tumor cell lines.

=> d 6 so

L6 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2002 ACS
SO PCT Int. Appl., 106 pp.
CODEN: PIXXD2

=> d 6 pi

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9907210	A1	19990218	WO 1998-US16683	19980811
	W:	AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9887799	A1	19990301	AU 1998-87799	19980811
	US 6040498	A	20000321	US 1998-132536	19980811
	EP 1037523	A1	20000927	EP 1998-939350	19980811
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	JP 2001513325	T2	20010904	JP 2000-506820	19980811

=> d 6 ab

L6 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2002 ACS
AB Methods and compns. are provided for the efficient transformation of **duckweed** by either ballistic bombardment, electroporation, or *Agrobacterium*. In this manner, any gene or nucleic acid of interest can be introduced and expressed in **duckweed** plants. Transformed **duckweed** plants, cells, tissues are also provided. Transformed **duckweed** plant tissue culture and methods of producing recombinant proteins and peptides from transformed **duckweed** plants are also disclosed.

=> d 5 so

L6 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2002 ACS
SO PCT Int. Appl., 58 pp.
CODEN: PIXXD2

=> d 5 pi

L6	ANSWER 5 OF 8 CAPLUS COPYRIGHT 2002 ACS	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9919497	A1	19990422	WO 1997-IL328	19971010	
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
AU	9745703	A1	19990503	AU 1997-45703	19971010	
CA	2312008	AA	19990422	CA 1998-2312008	19981008	
WO	9919498	A1	19990422	WO 1998-IL487	19981008	
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG					
AU	9894572	A1	19990503	AU 1998-94572	19981008	
EP	1021552	A1	20000726	EP 1998-947760	19981008	
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					

=> d 4 pi

L6 ANSWER 4 OF 8 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
PI US 6040498 March 21, 2000

=> d 3 so

L6 ANSWER 3 OF 8 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
SO Journal of Applied Botany, (August, 2001) Vol. 75, No. 3-4, pp. 107-111.
print.
ISSN: 0949-5460.

=> s 16 and copper
L7 0 L6 AND COPPER

=> s 16 and booster
L8 1 L6 AND BOOSTER

=> d ti

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
TI Methods for the genetic transformation of **Lemnaceae** with
Agrobacterium tumefaciens

=> d pi

L8	ANSWER 1 OF 1	CAPLUS	COPYRIGHT 2002 ACS		
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 9919497	A1	19990422	WO 1997-IL328	19971010
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU	9745703	A1	19990503	AU 1997-45703	19971010
CA	2312008	AA	19990422	CA 1998-2312008	19981008
WO	9919498	A1	19990422	WO 1998-IL487	19981008
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU	9894572	A1	19990503	AU 1998-94572	19981008
EP	1021552	A1	20000726	EP 1998-947760	19981008
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			